	Application No.	Applicant(s)
Notice of Allowability	10/811,808	CHAE ET AL.
	Examiner	Art Unit
	Wai-Sing Louie	2814
The MAILING DATE of this communication appe		
All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commit GHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>7/10/06</u> .		
2. \boxtimes The allowed claim(s) is/are <u>1,2,5 and 15-17</u> .		
3. ☑ Acknowledgment is made of a claim for foreign priority un a) ☑ All b) ☐ Some* c) ☐ None of the:		or (f).
 ☐ Certified copies of the priority documents have been received. ☐ Certified copies of the priority documents have been received in Application No 		
3. Copies of the certified copies of the priority documents have	• •	
International Bureau (PCT Rule 17.2(a)).	cuments have been receive	an this hational stage application from the
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminiformal patent application (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review	v (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1, each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
·		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of In	formal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), Mail Date
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0		/Mail Date Amendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's	Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	- () 10
		Mai Circulation
		Wai-Sing Louie Patent Examiner

DETAILED ACTION

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

The prior art of record does not disclose or suggest either in singularly or in combination the following limitations and other elements in the claims. Reference Hata et al. (US 6,649,942), Hiraoka (US Pub. 2001/0002139), and Shakuda et al. (US 6,107,648) do not disclose:

An alloy layer which is formed on the upper clad layer to directly contact a
surface of the upper clad layer, consists essentially of Zn and Ni, and absorbs
hydrogen existing on the surface of said upper clad layer to prevent the p-type
dopant from combining with said hydrogen.

Therefore, the above references do not disclose the claimed invention of present application and claims 1-2, 5, and 15-17 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is (571) 272-1709. The examiner can normally be reached on 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Wai-Sing Louie Patent Examiner

Wsl July 19, 2006.